6627TT 595mEn60

FIG.1

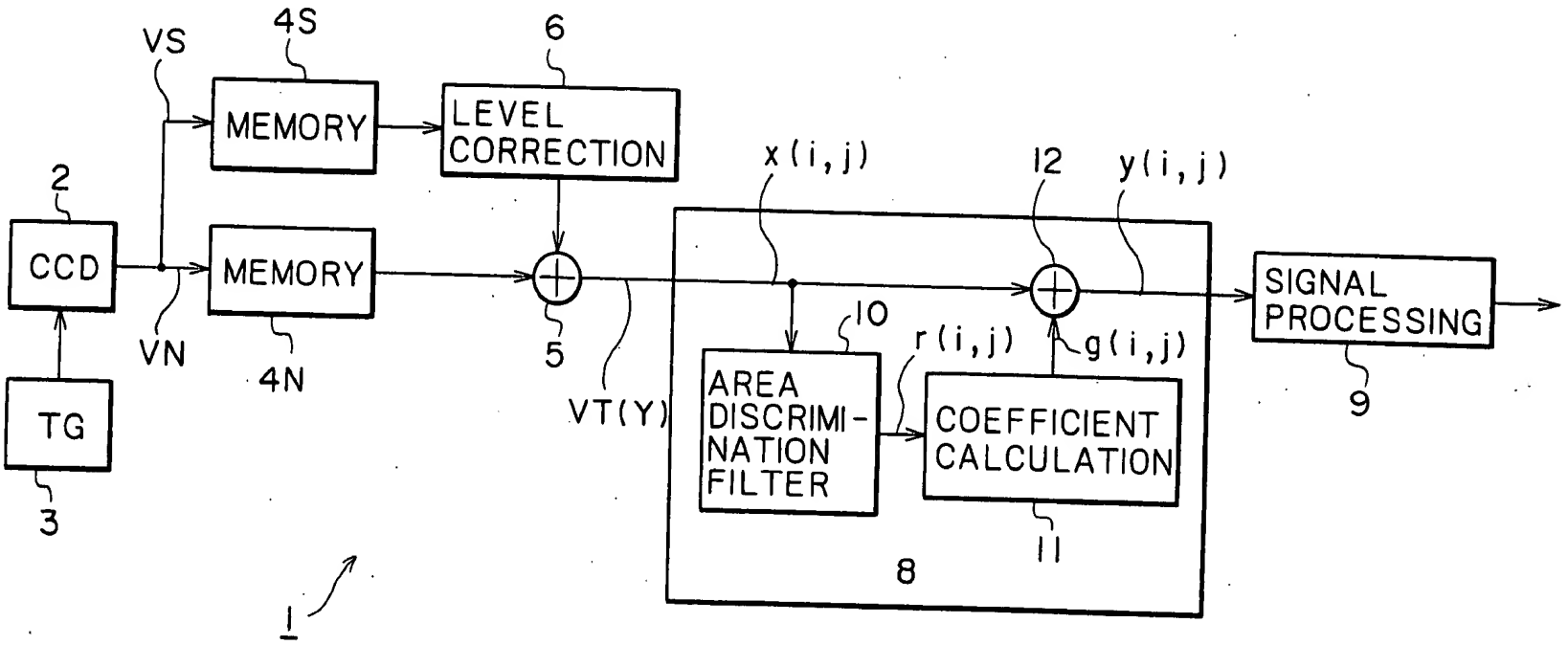

FIG. 2

Ye	Cy	Ye	Cy	
Mg	G	Mg	G	
Ye	Cy	Ye	Cy	
G	Mg	G	Mg	

FIG. 3

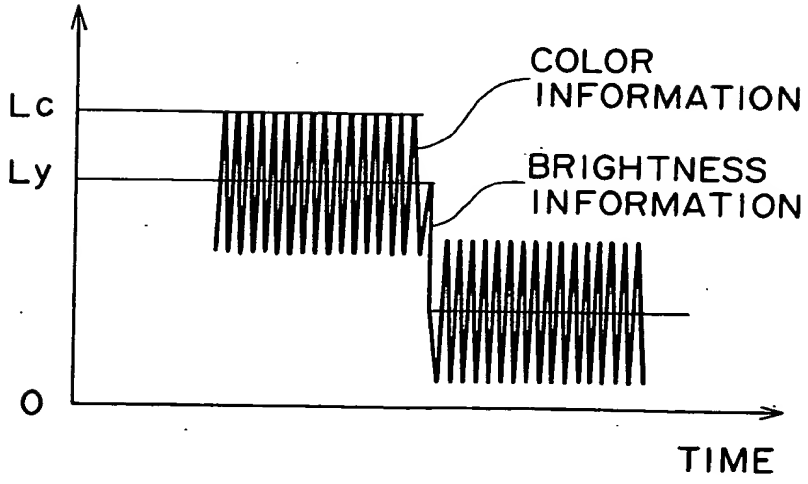

FIG.4A

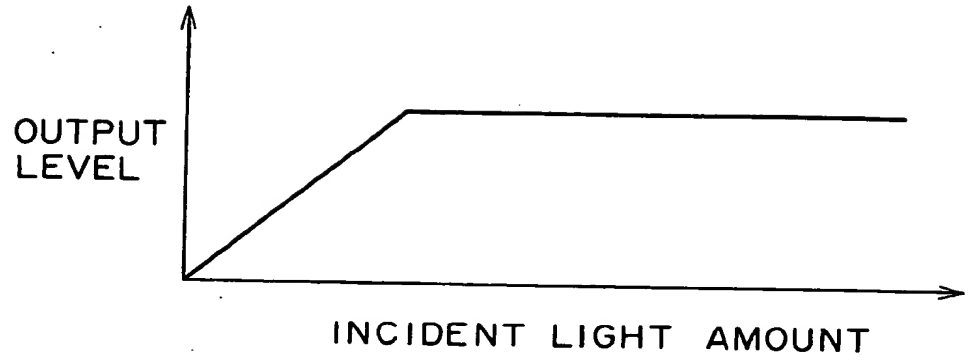

FIG.4B

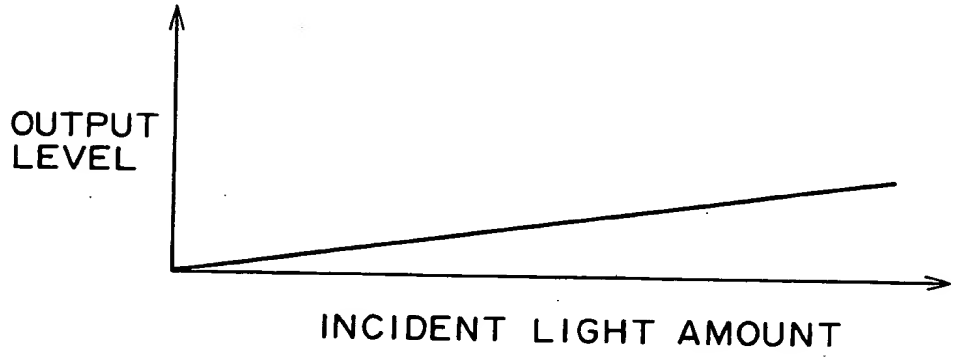

FIG.4C

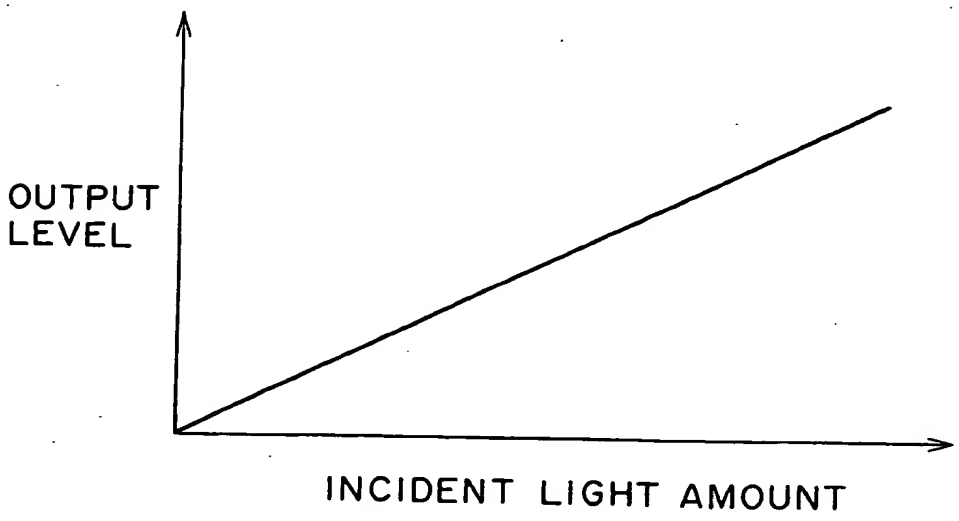

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FIG.5

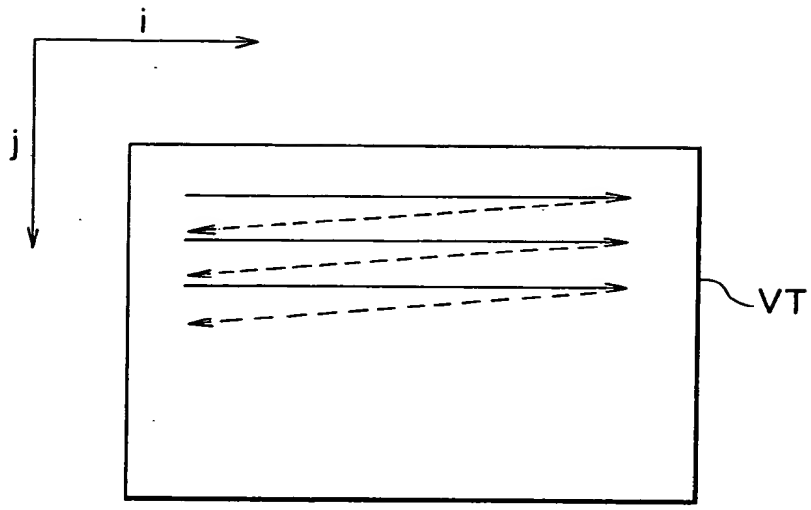
i
j
VT

FIG.6

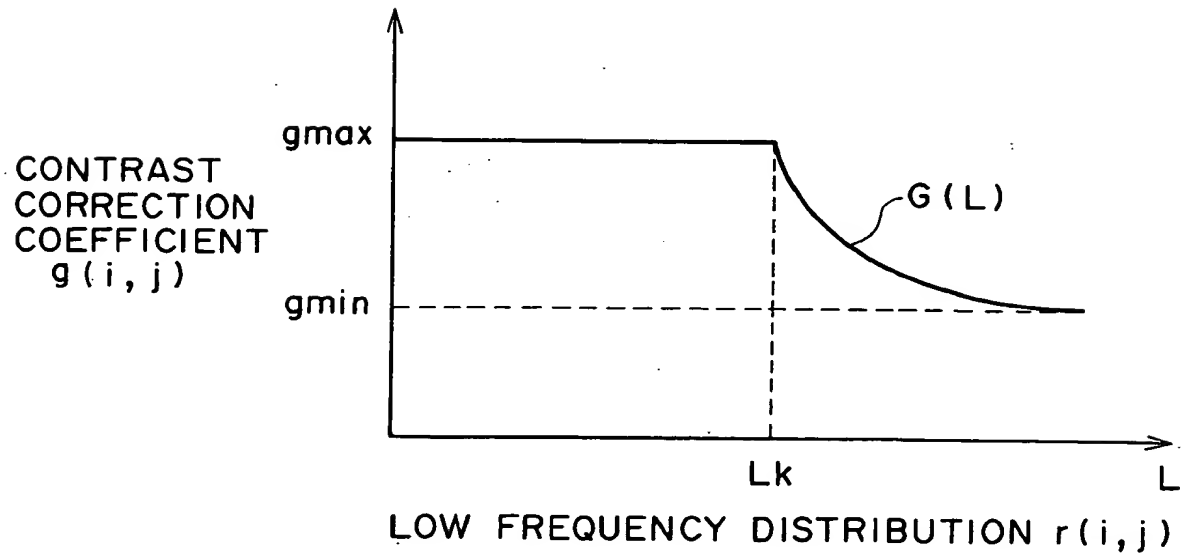
CONTRAST
CORRECTION
COEFFICIENT
g(i, j)
gmax
gmin
G(L)
Lk
L
LOW FREQUENCY DISTRIBUTION r(i,j)

FIG. 7A

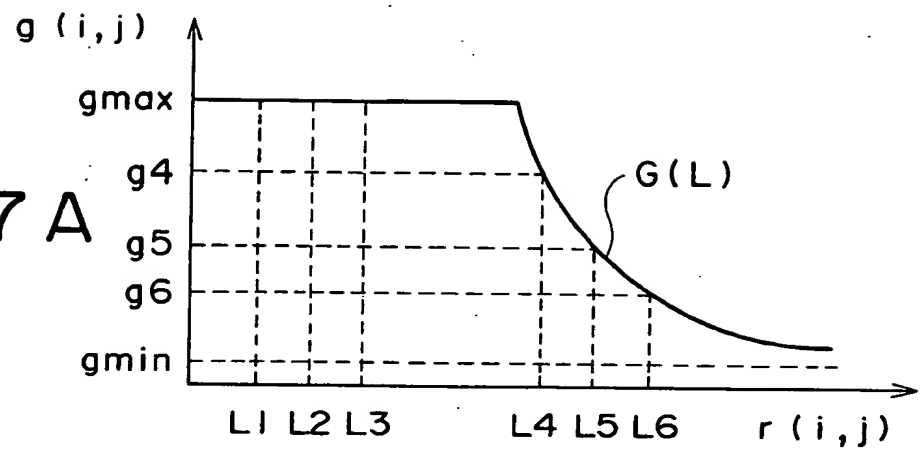

FIG. 7B

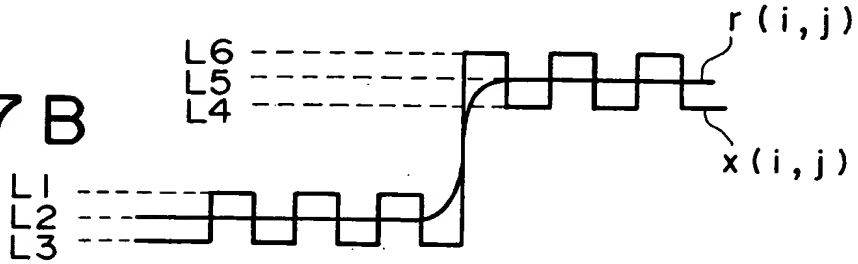

FIG. 7C

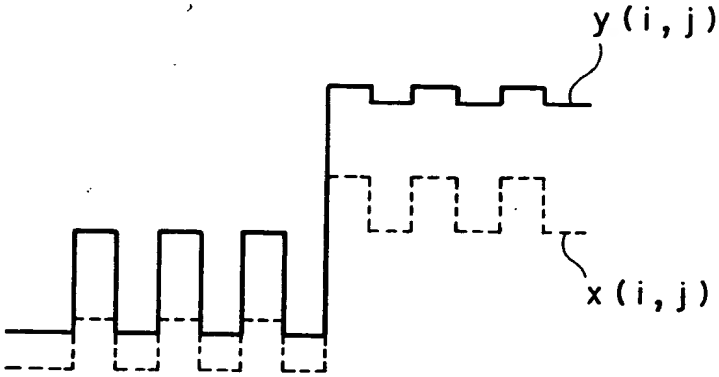

FIG. 7D

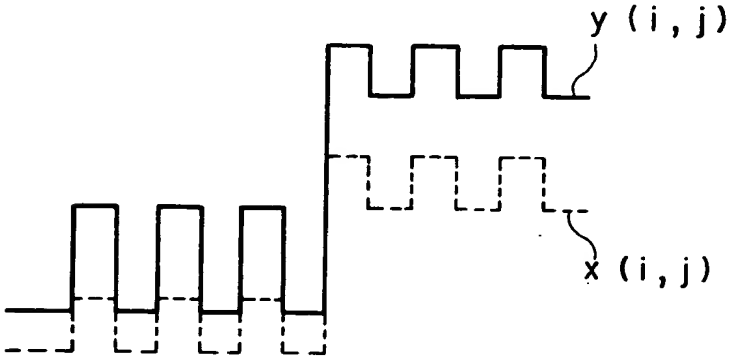

FIG.8A

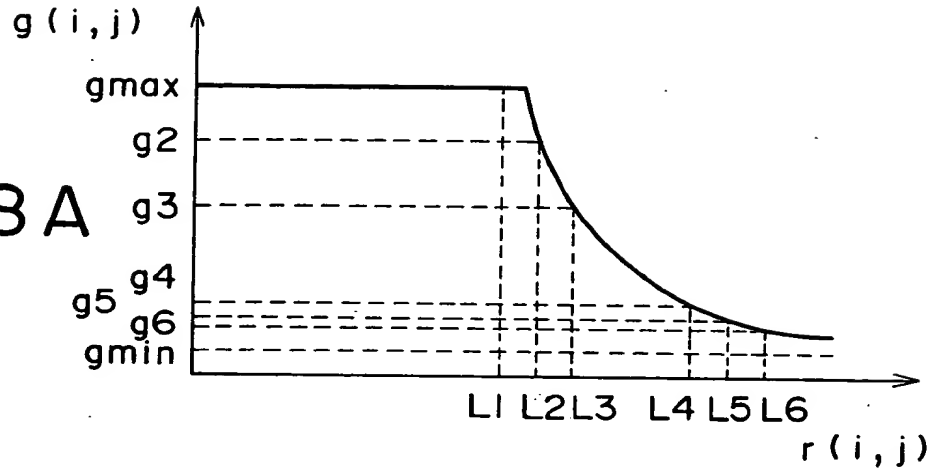

FIG.8B

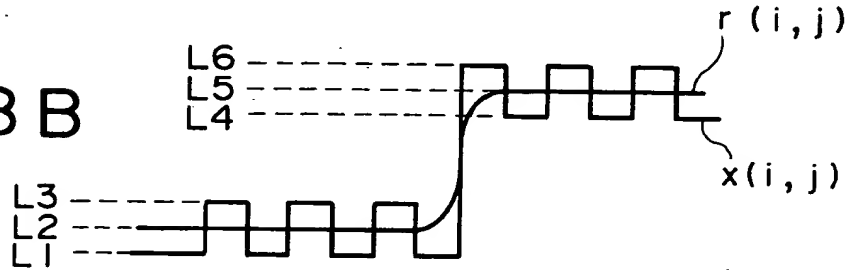

FIG.8C

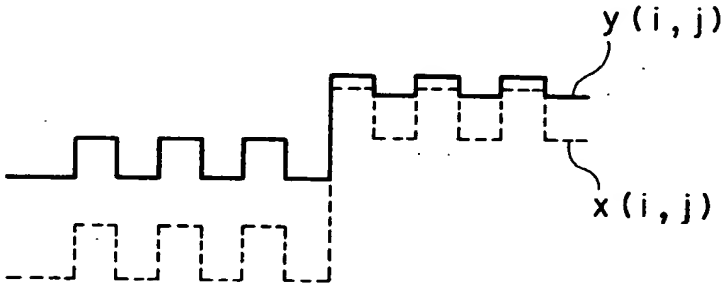

FIG.8D

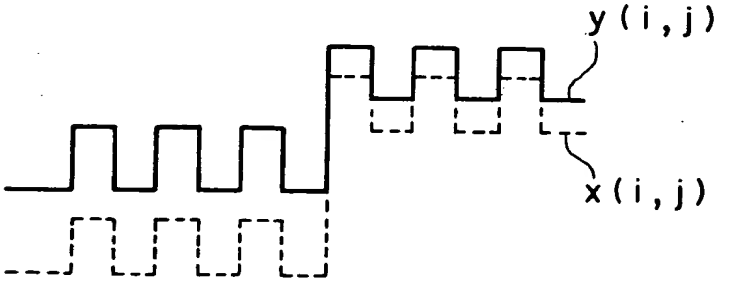

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FIG. 9

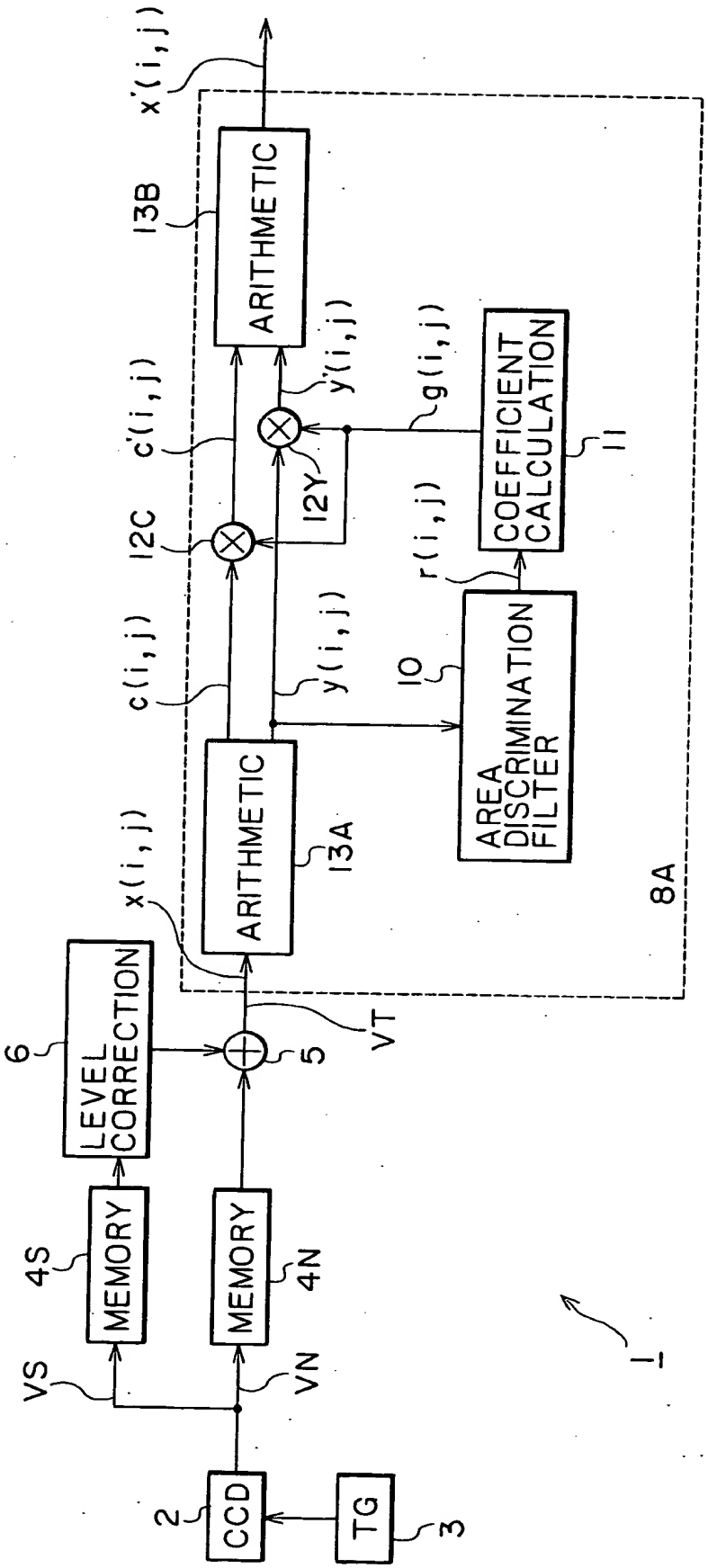
CCD
TG
2
3
VS
VN
MEMORY
MEMORY
4S
4N
LEVEL CORRECTION
6
5
VT
x(i,j)
ARITHMETIC
13A
c(i,j)
y(i,j)
12C
12Y
c'(i,j)
y'(i,j)
ARITHMETIC
13B
x'(i,j)
10
AREA DISCRIMINATION FILTER
r(i,j)
COEFFICIENT CALCULATION
11
g(i,j)
8A
1

FIG. 10

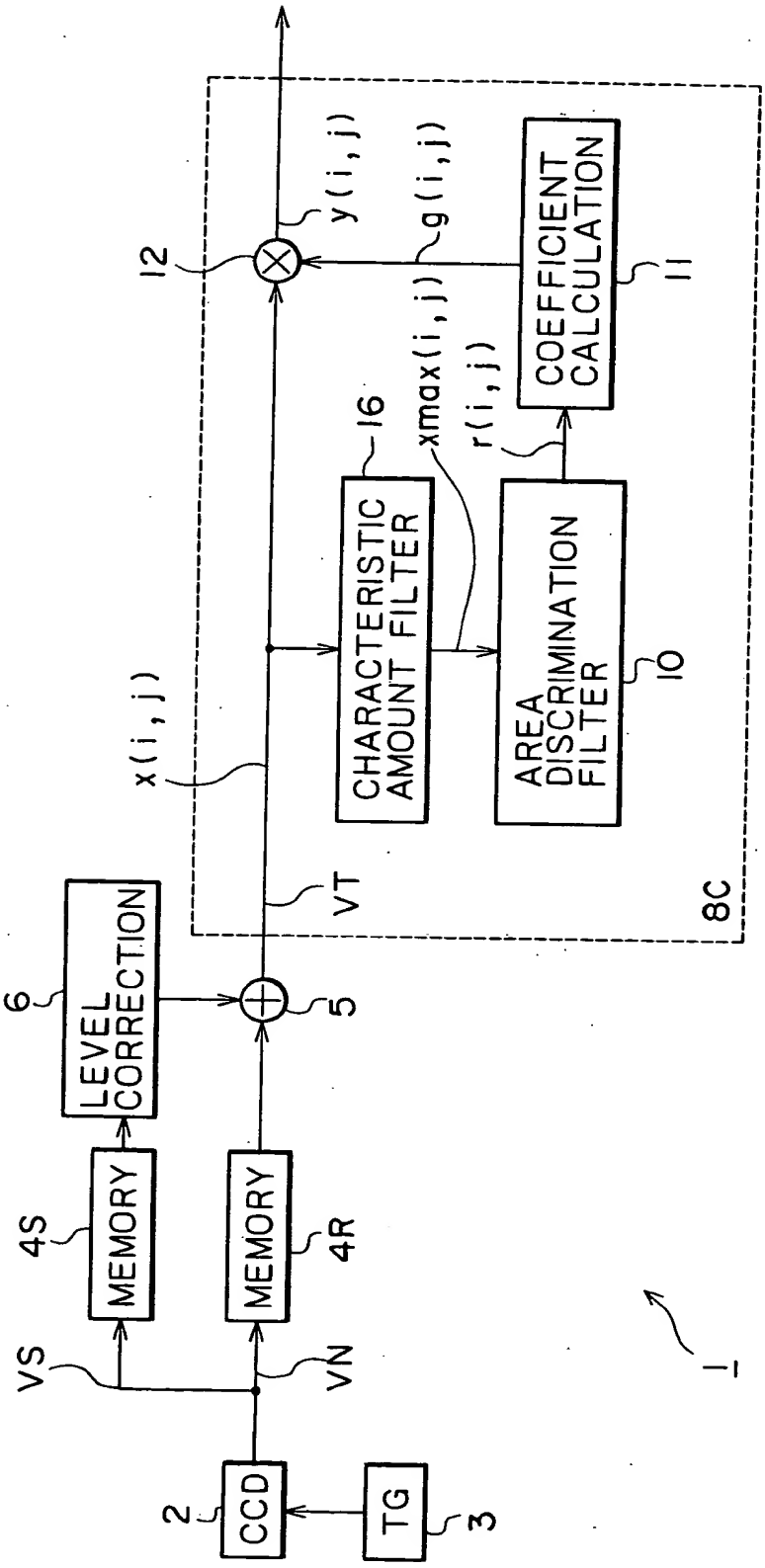
CCD
2
TG
3
VS
VN
MEMORY
4S
MEMORY
4R
LEVEL CORRECTION
6
5
VT
8C
x(i,j)
CHARACTERISTIC AMOUNT FILTER
16
xmax(i,j)
r(i,j)
AREA DISCRIMINATION FILTER
10
COEFFICIENT CALCULATION
11
g(i,j)
12
y(i,j)
1

FIG. 11

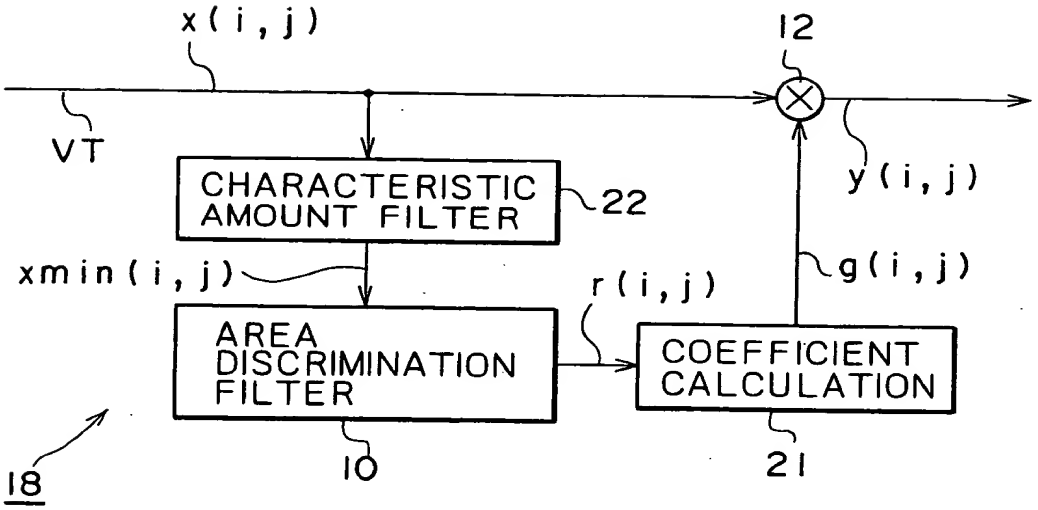
x(i,j)
12
VT
y(i,j)
CHARACTERISTIC AMOUNT FILTER
22
xmin(i,j)
r(i,j)
g(i,j)
AREA DISCRIMINATION FILTER
COEFFICIENT CALCULATION
10
21
18

FIG. 18

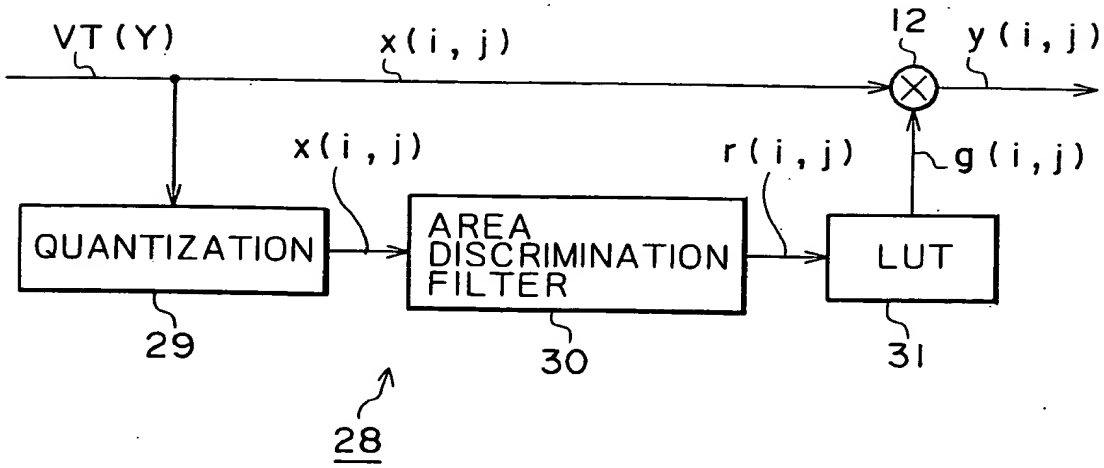
VT(Y)
x(i,j)
12
y(i,j)
x(i,j)
r(i,j)
g(i,j)
QUANTIZATION
AREA DISCRIMINATION FILTER
LUT
29
30
31
28

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FIG.12

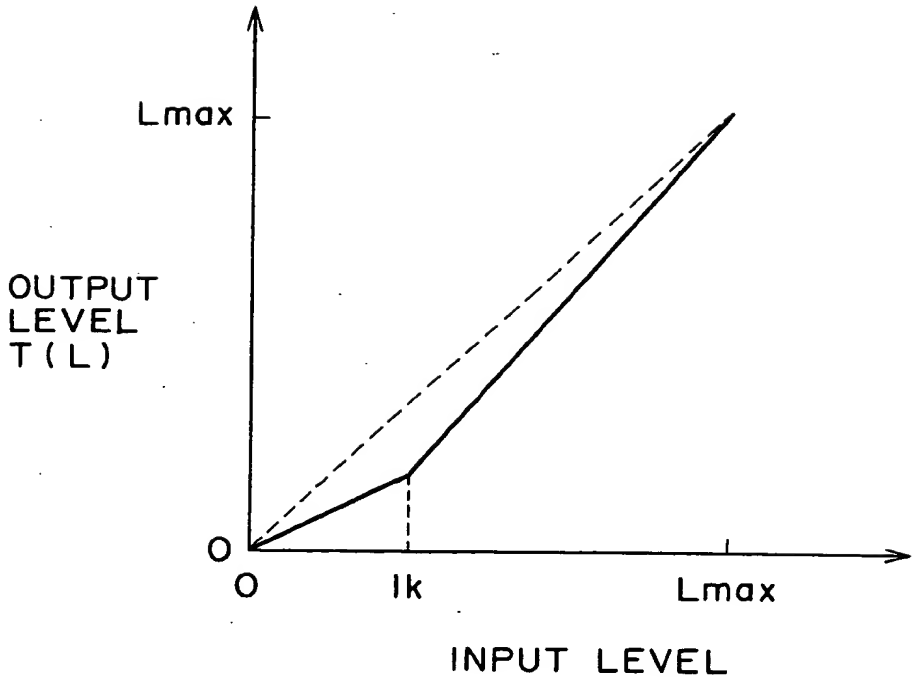

FIG. 13

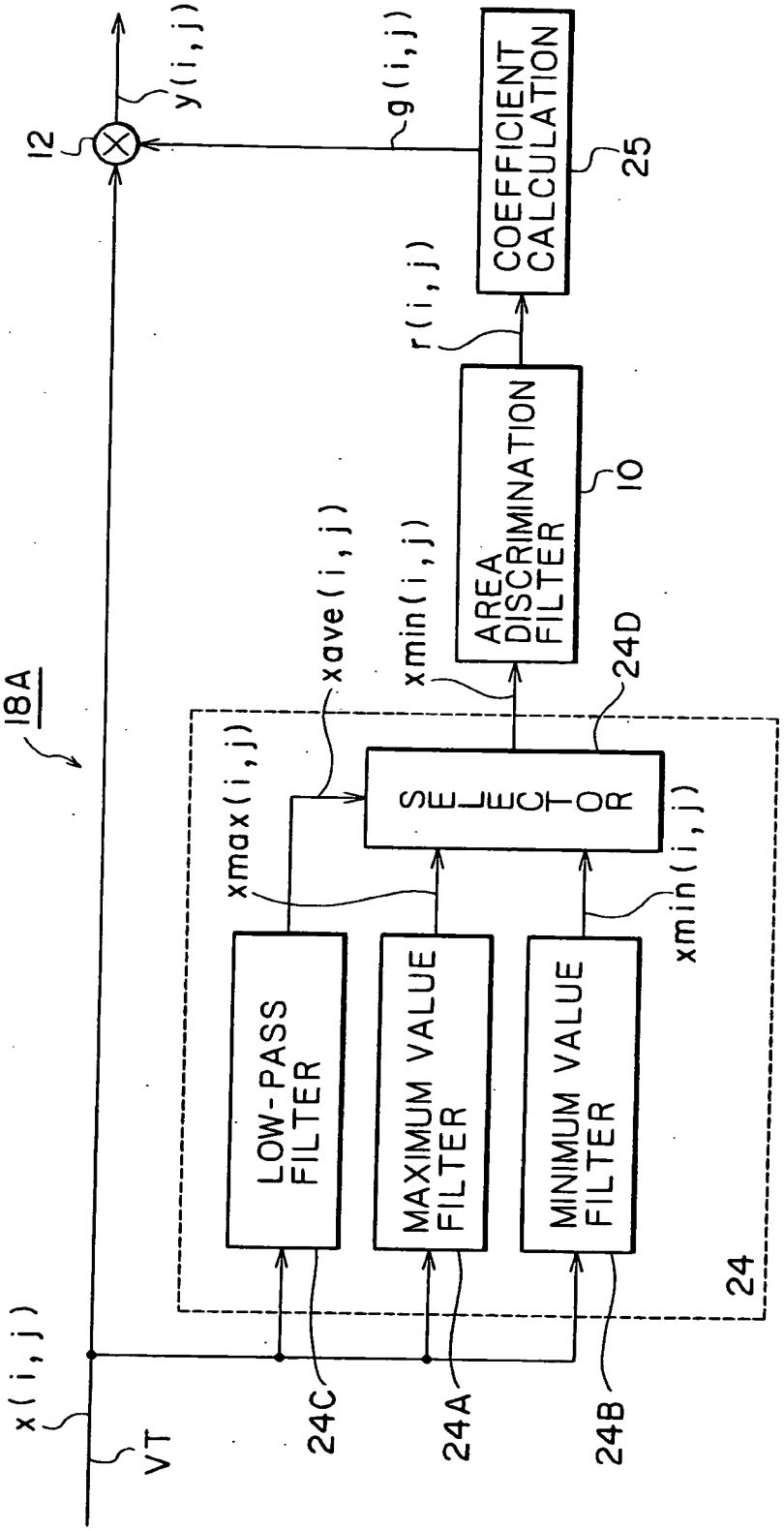
18A
x(i,j)
VT
12
y(i,j)
g(i,j)
COEFFICIENT CALCULATION
25
r(i,j)
AREA DISCRIMINATION FILTER
10
xmin(i,j)
xave(i,j)
xmax(i,j)
SELECTOR
24D
LOW-PASS FILTER
MAXIMUM VALUE FILTER
MINIMUM VALUE FILTER
xmin(i,j)
24
24C
24A
24B

FIG.14

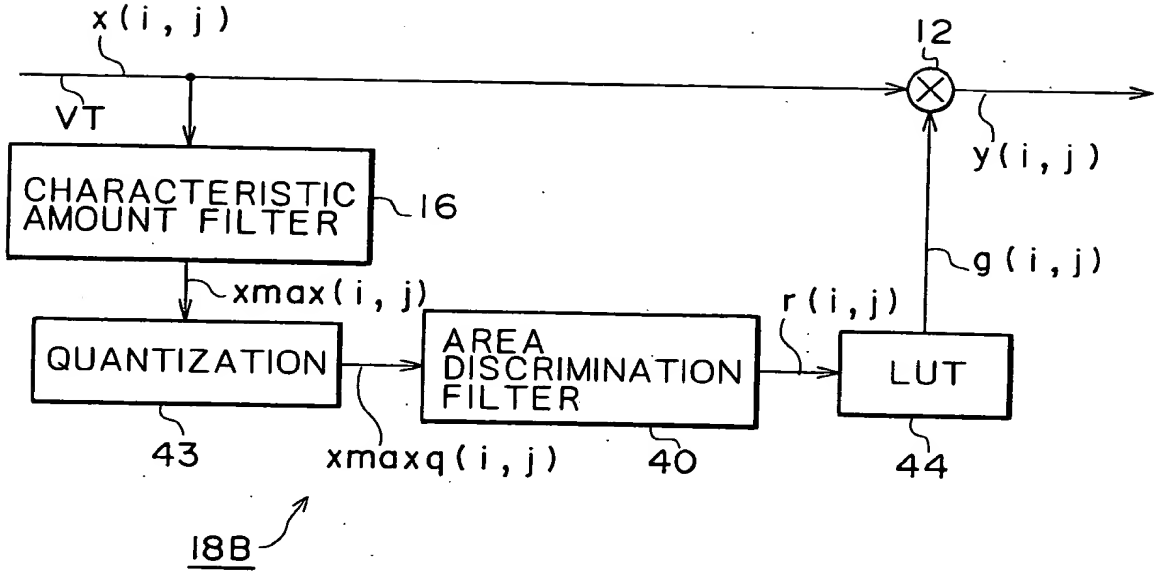
x(i, j)
12
VT
y(i, j)
CHARACTERISTIC AMOUNT FILTER
16
g(i, j)
xmax(i, j)
r(i, j)
QUANTIZATION
AREA DISCRIMINATION FILTER
LUT
43
xmaxq(i, j)
40
44
18B

FIG.15

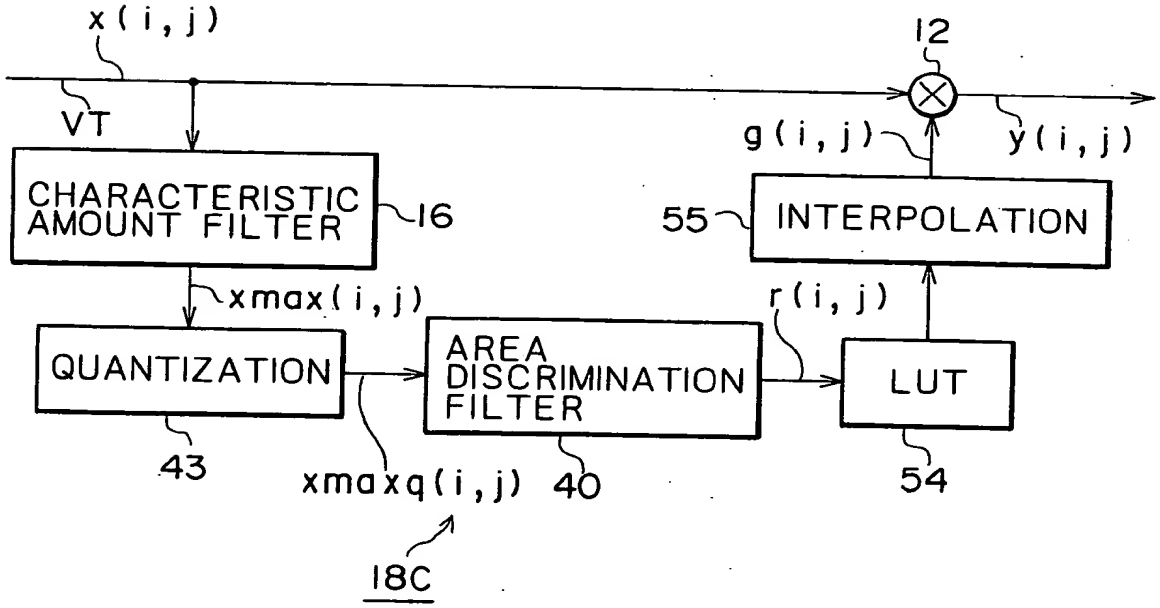
x(i, j)
12
VT
g(i, j)
y(i, j)
CHARACTERISTIC AMOUNT FILTER
16
55
INTERPOLATION
xmax(i, j)
r(i, j)
QUANTIZATION
AREA DISCRIMINATION FILTER
LUT
43
xmaxq(i, j)
40
54
18C

FIG.16

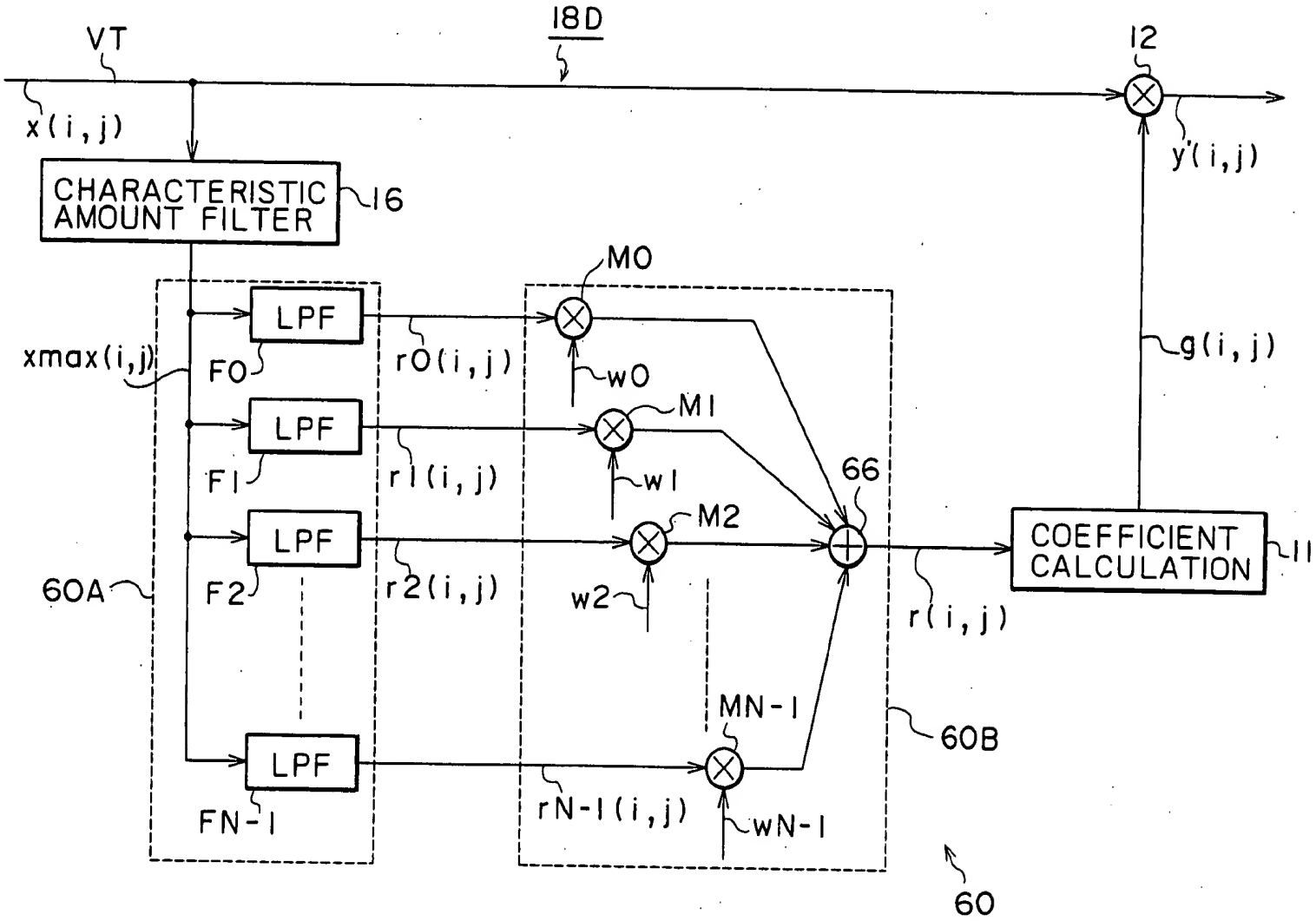
VT
18D
12
x(i,j)
y'(i,j)
CHARACTERISTIC AMOUNT FILTER
16
M0
LPF
xmax(i,j)
F0
r0(i,j)
w0
LPF
M1
F1
r1(i,j)
w1
66
LPF
M2
60A
F2
r2(i,j)
w2
g(i,j)
COEFFICIENT CALCULATION
11
r(i,j)
MN-1
60B
LPF
FN-1
rN-1(i,j)
wN-1
60

FIG. 17

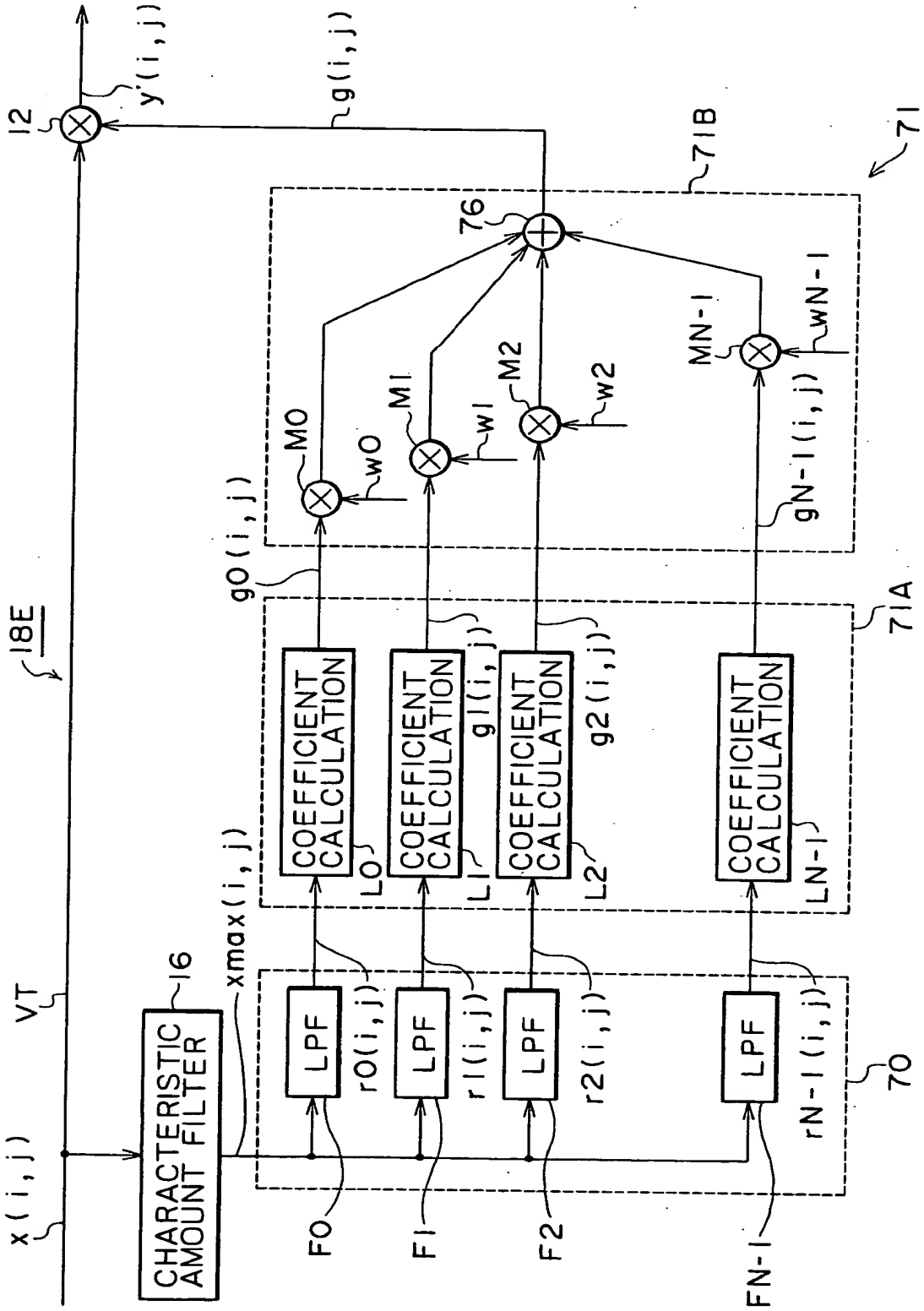
x(i,j)
VT
18E
CHARACTERISTIC AMOUNT FILTER
16
xmax(i,j)
LPF
r0(i,j)
r1(i,j)
r2(i,j)
rN-1(i,j)
70
F0
F1
F2
FN-1
COEFFICIENT CALCULATION
L0
L1
L2
LN-1
71A
g0(i,j)
g1(i,j)
g2(i,j)
gN-1(i,j)
M0
M1
M2
MN-1
w0
w1
w2
wN-1
76
71B
71
g(i,j)
y'(i,j)
12

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FIG. 19

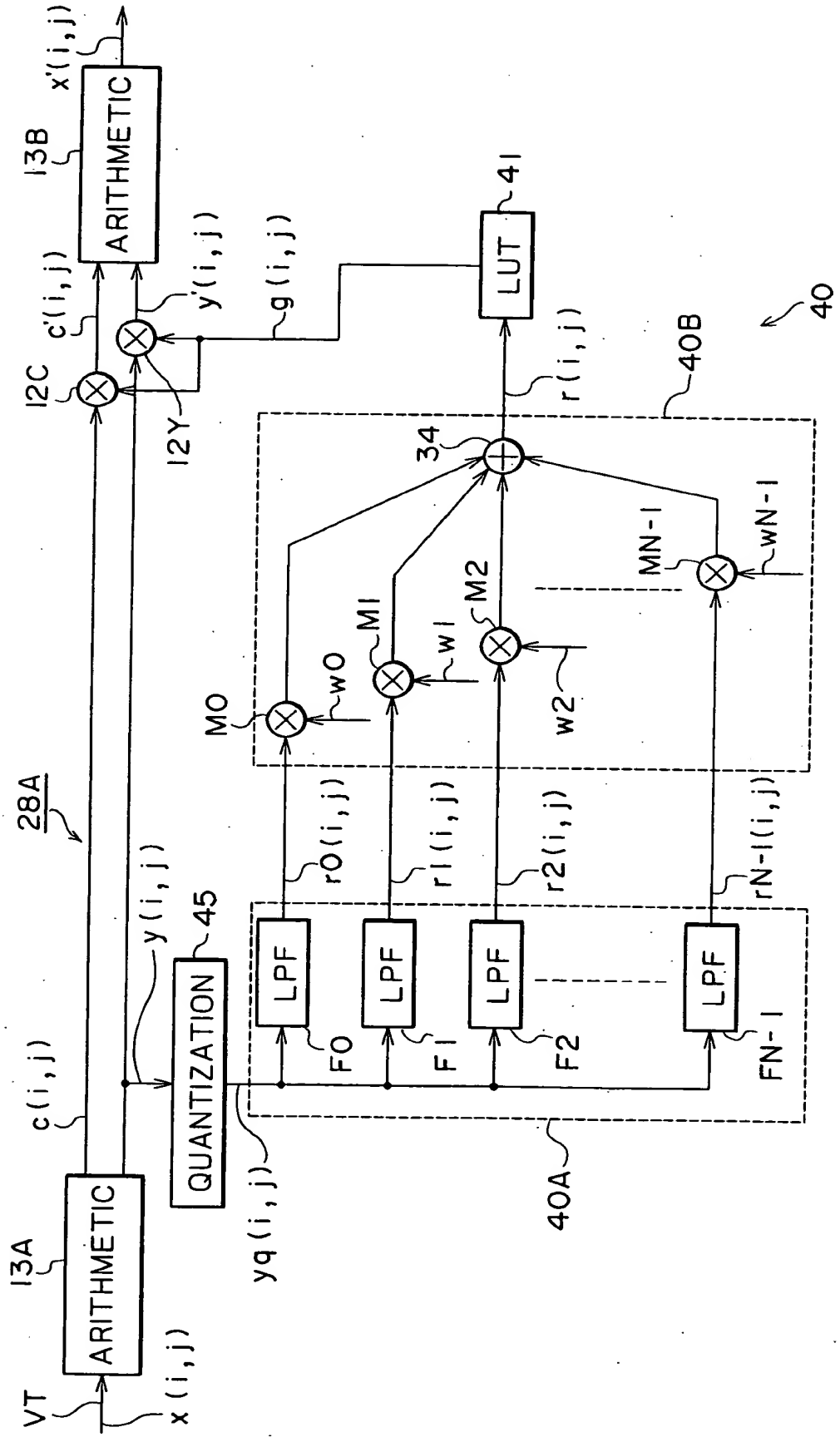

FIG.20

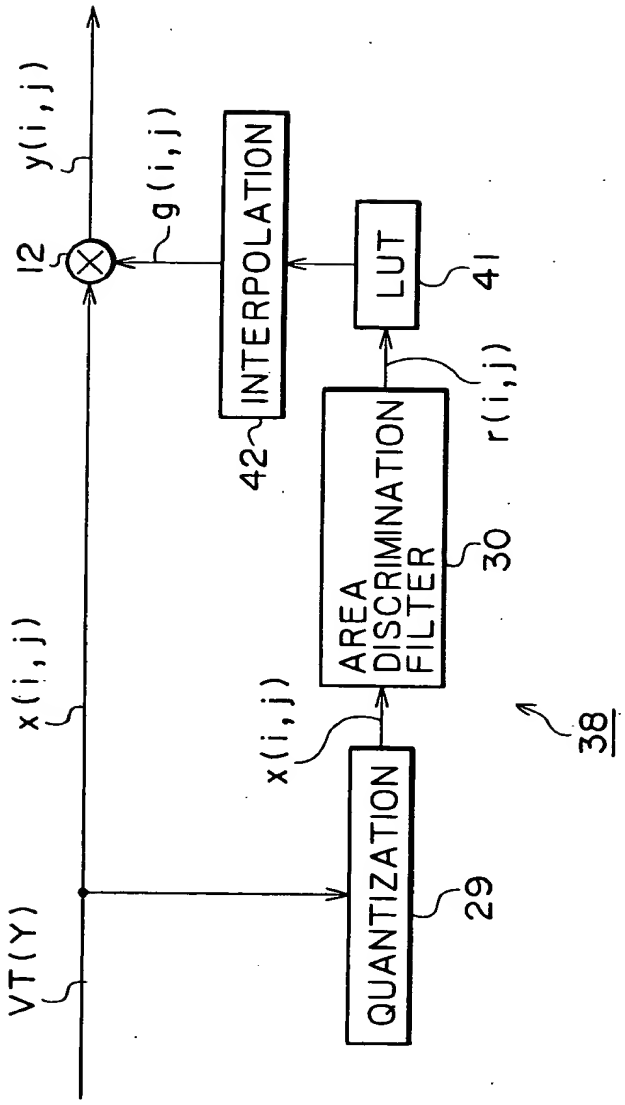
VT(Y)
x(i,j)
x(i,j)
QUANTIZATION
29
AREA DISCRIMINATION FILTER
30
r(i,j)
LUT
41
INTERPOLATION
42
g(i,j)
12
y(i,j)
38

FIG.21

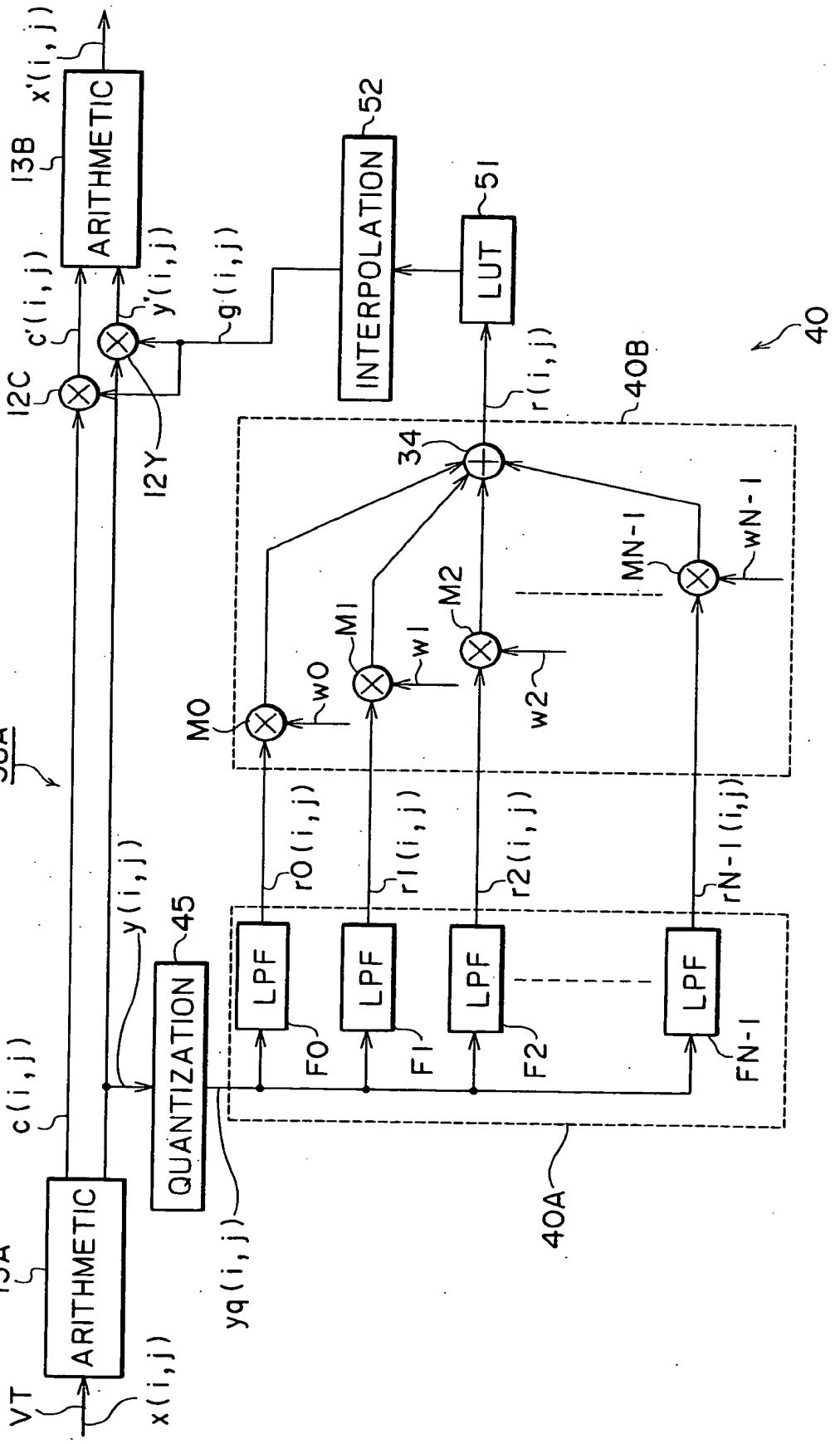
VT
x(i,j)
13A
ARITHMETIC
c(i,j)
QUANTIZATION
45
y(i,j)
yq(i,j)
38A
LPF
F0
F1
F2
FN-1
r0(i,j)
r1(i,j)
r2(i,j)
rN-1(i,j)
40A
M0
M1
M2
MN-1
w0
w1
w2
wN-1
34
40B
r(i,j)
LUT
51
INTERPOLATION
52
g(i,j)
y'(i,j)
12Y
12C
c'(i,j)
13B
ARITHMETIC
x'(i,j)
40

FIG.22

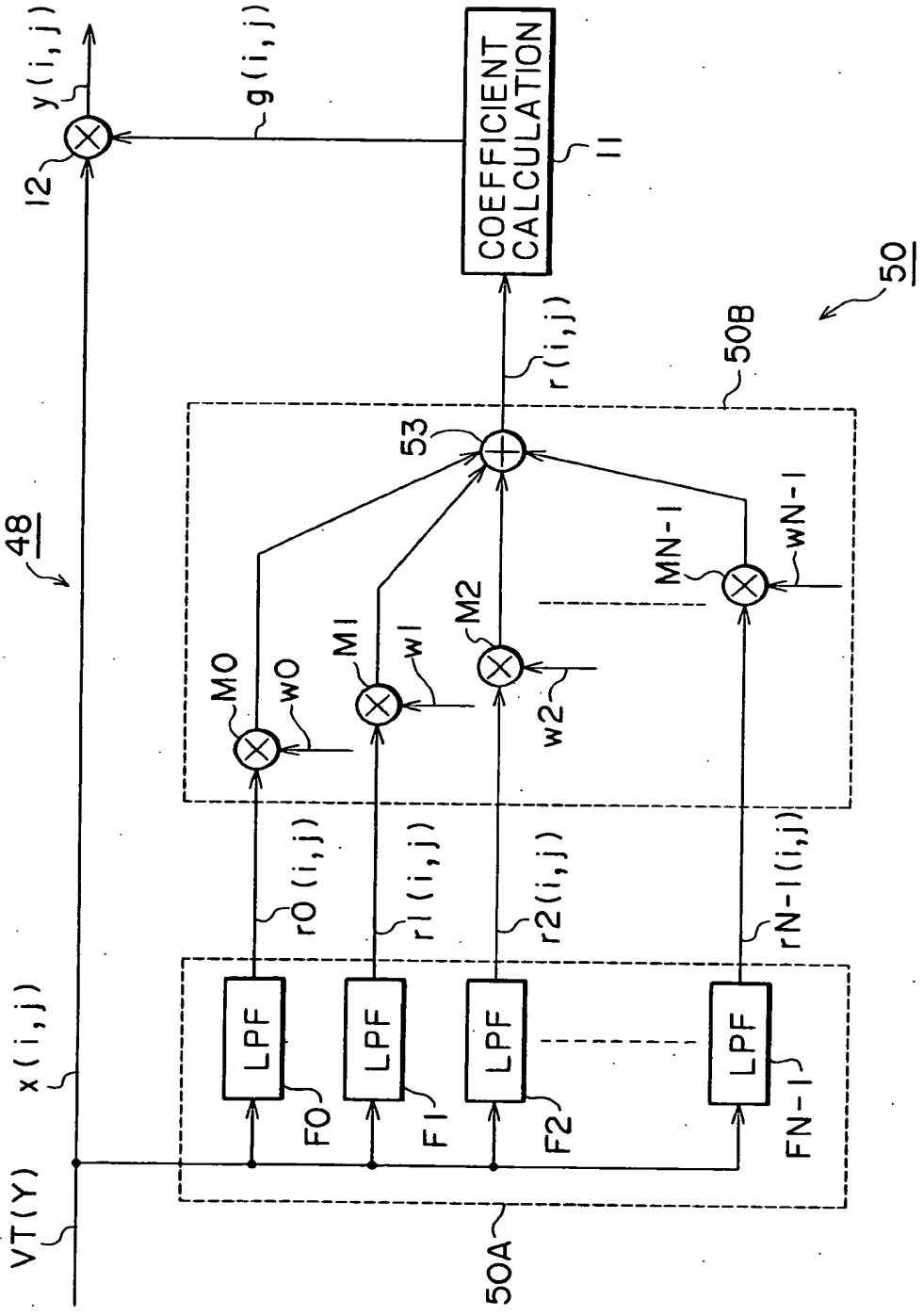
50
48
50A
50B
VT(Y)
x(i,j)
y(i,j)
g(i,j)
r(i,j)
12
11
COEFFICIENT CALCULATION
53
LPF
F0
F1
F2
FN-1
r0(i,j)
r1(i,j)
r2(i,j)
rN-1(i,j)
M0
M1
M2
MN-1
w0
w1
w2
wN-1

FIG.23A

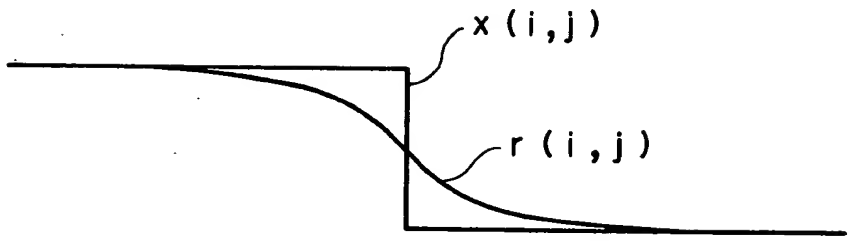

FIG.23B

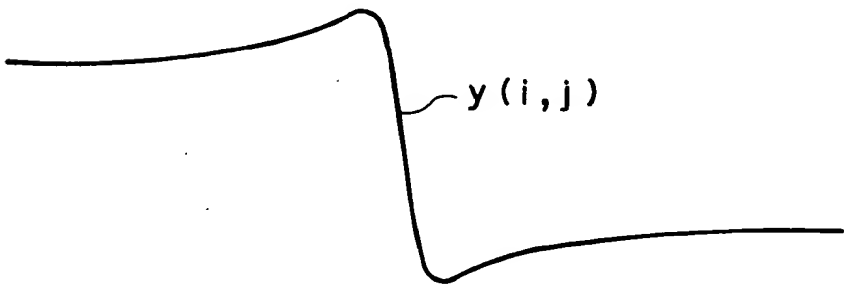

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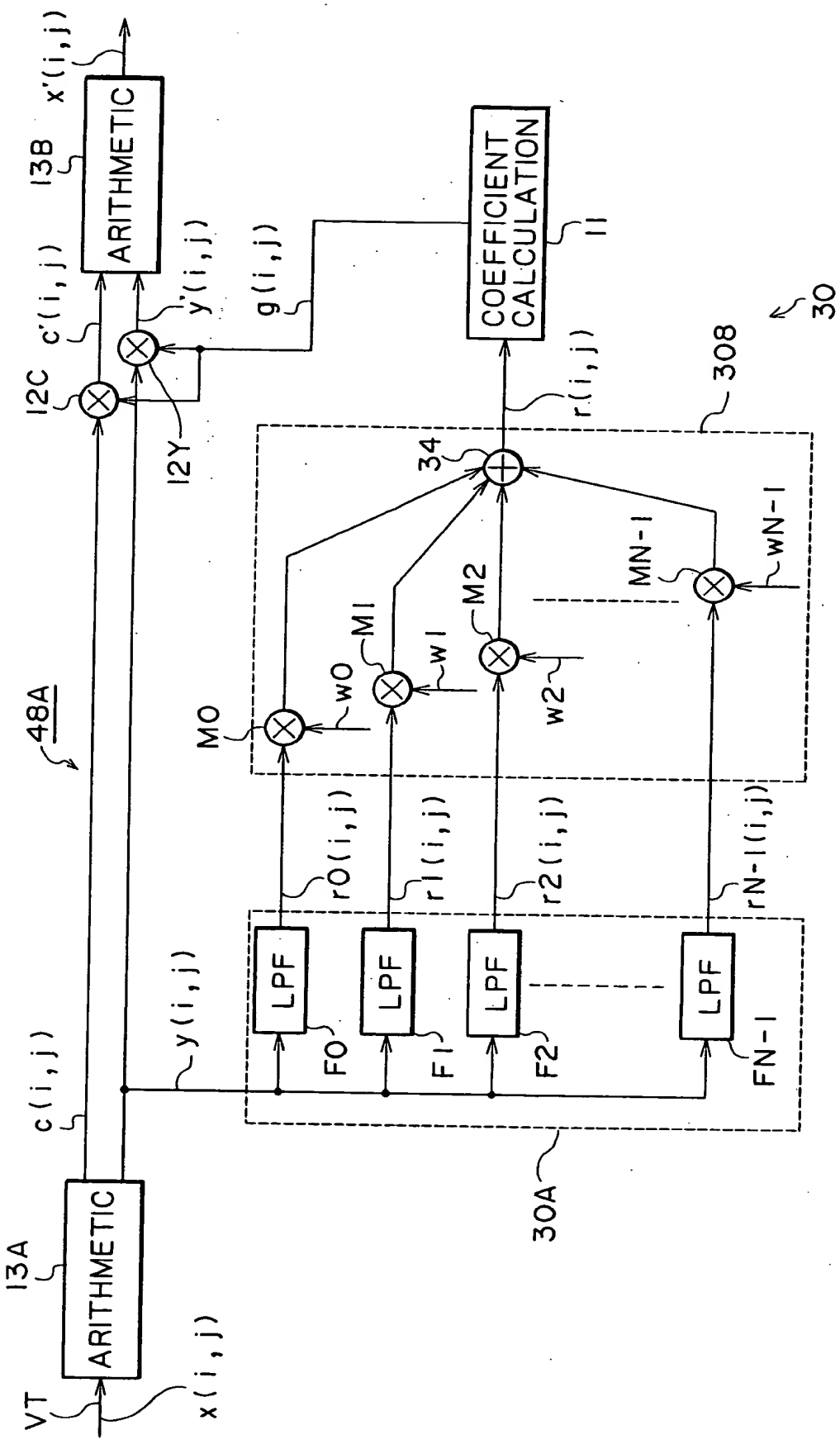
FIG. 24


VT
x(i,j)
13A
ARITHMETIC
c(i,j)
y(i,j)
48A
30A
LPF
F0
F1
F2
FN-1
r0(i,j)
r1(i,j)
r2(i,j)
rN-1(i,j)
M0
M1
M2
MN-1
w0
w1
w2
wN-1
34
308
r(i,j)
30
COEFFICIENT CALCULATION
11
g(i,j)
y'(i,j)
12C
12Y
c'(i,j)
13B
ARITHMETIC
x'(i,j)

0224145 5954240

FIG.25

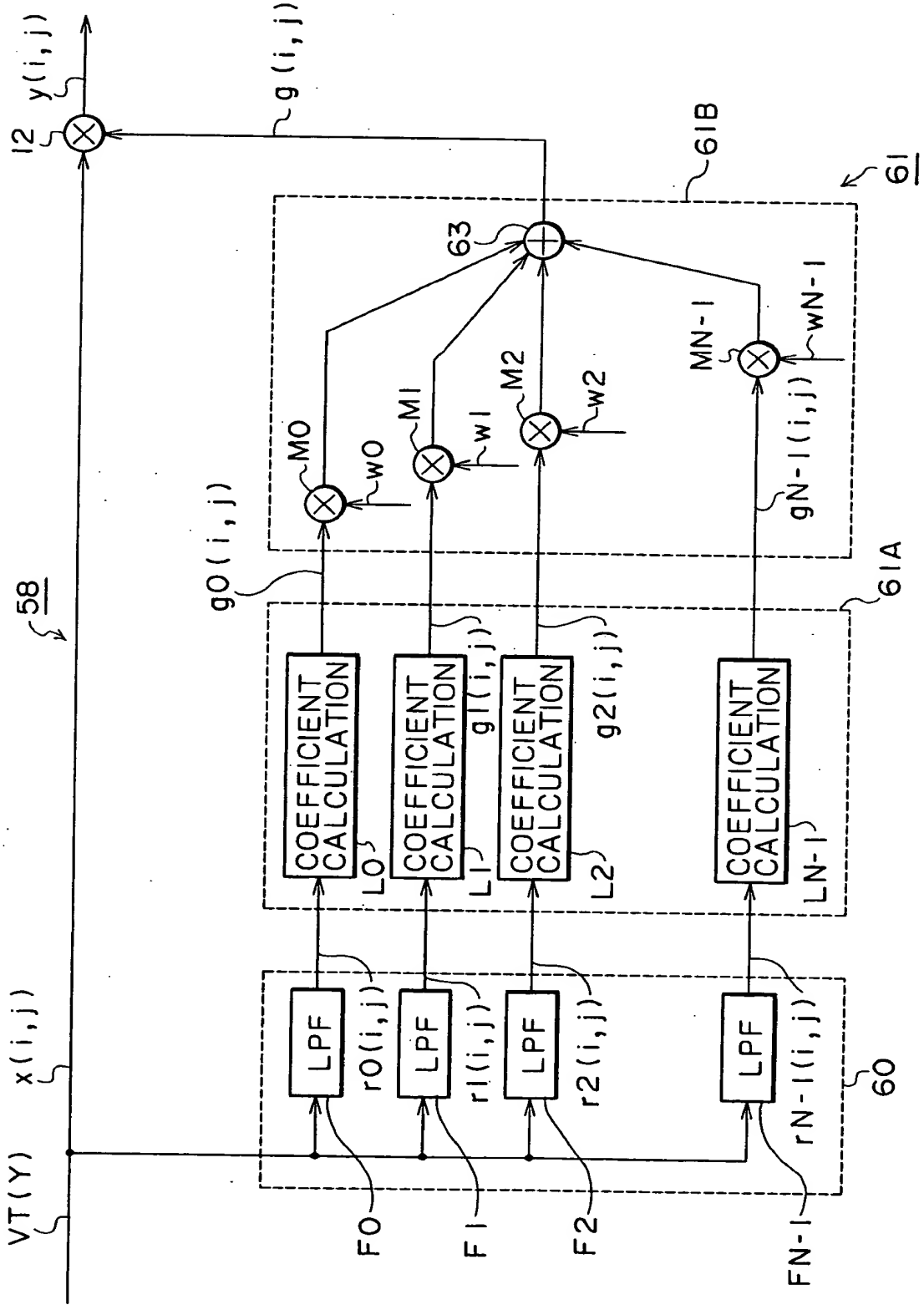


FIG.26

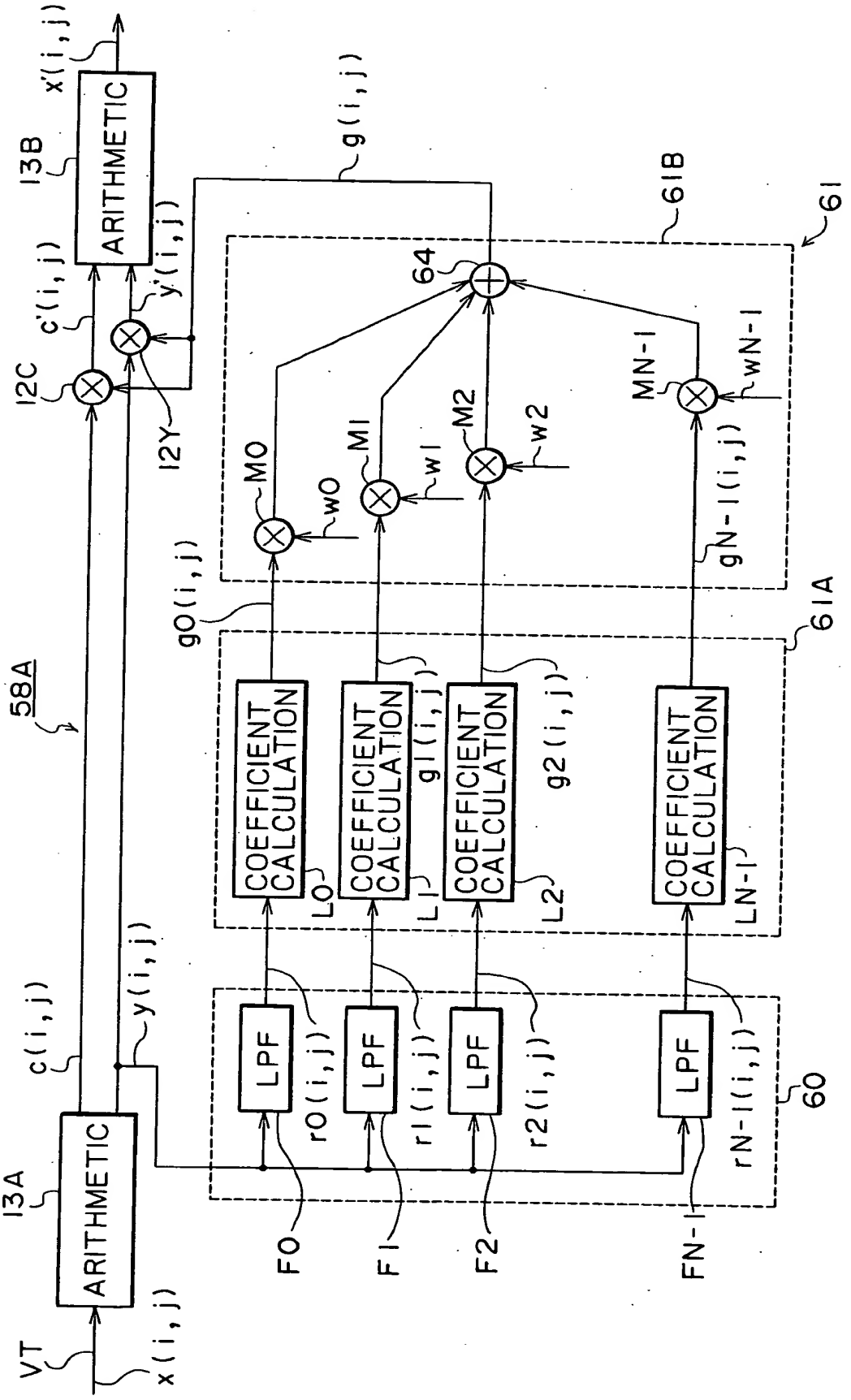

VT
x(i,j)
ARITHMETIC
13A
c(i,j)
y(i,j)
58A
12C
12Y
c'(i,j)
y'(i,j)
ARITHMETIC
13B
x'(i,j)
g(i,j)
61
61B
64
M0
M1
M2
MN-1
w0
w1
w2
wN-1
gN-1(i,j)
g0(i,j)
61A
COEFFICIENT CALCULATION
L0
L1
L2
LN-1
g1(i,j)
g2(i,j)
LPF
60
r0(i,j)
r1(i,j)
r2(i,j)
rN-1(i,j)
F0
F1
F2
FN-1

FIG. 27

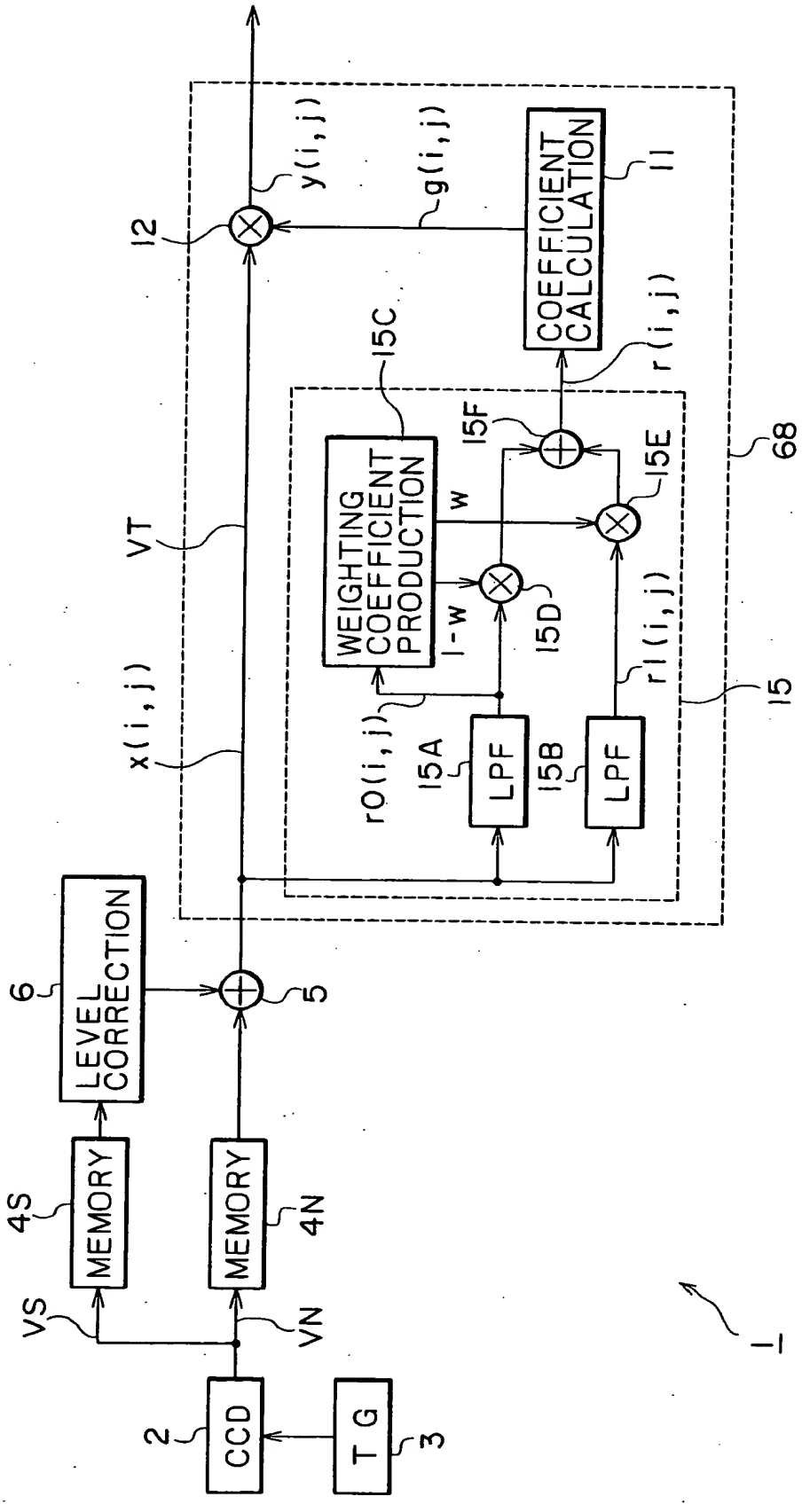

CCD
2
TG
3
VS
VN
MEMORY
4S
MEMORY
4N
LEVEL CORRECTION
6
5
x(i,j)
VT
12
y(i,j)
g(i,j)
COEFFICIENT CALCULATION
11
r(i,j)
15C
WEIGHTING COEFFICIENT PRODUCTION
w
1-w
15D
15F
15E
68
r0(i,j)
15A
LPF
15B
LPF
r1(i,j)
15
1

FIG.28

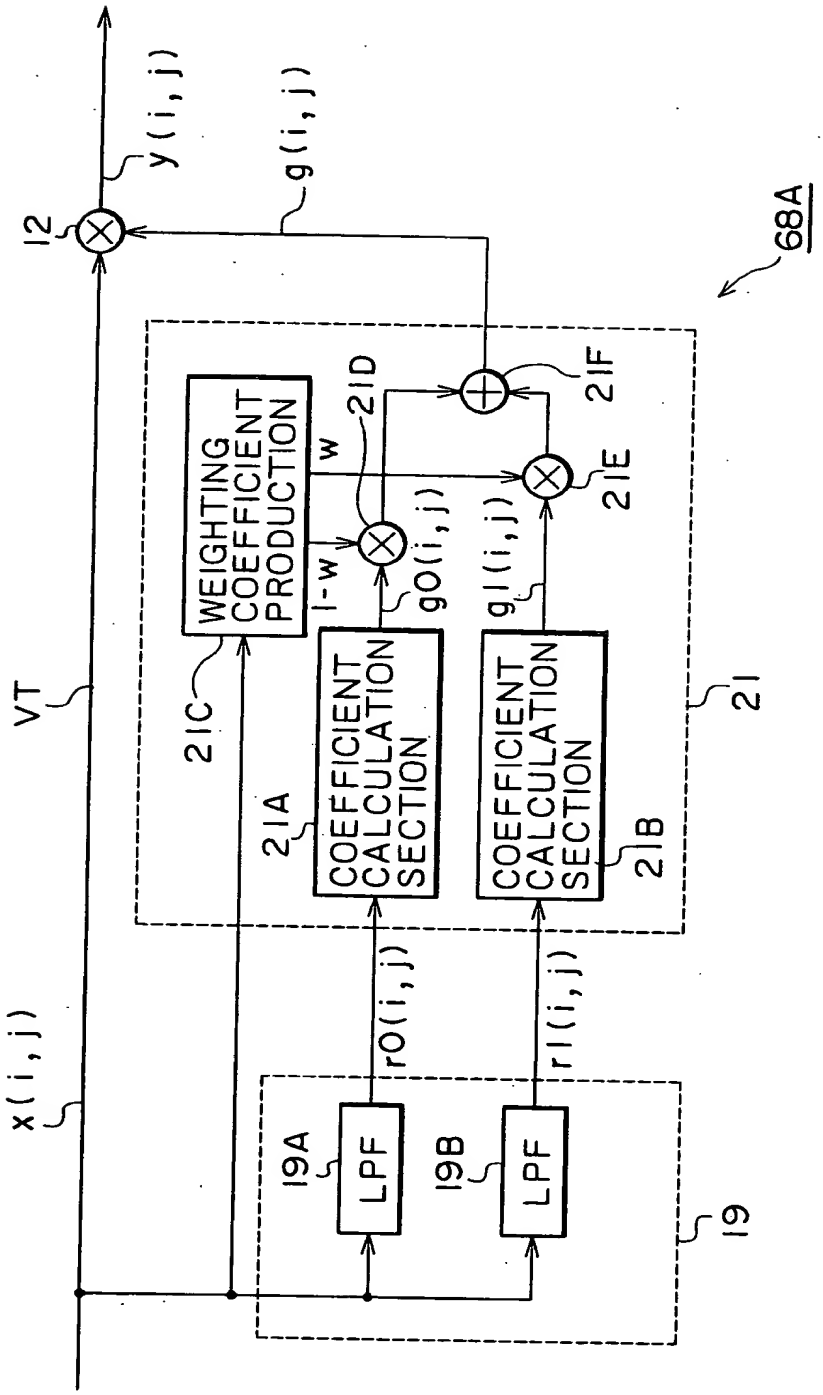

68A
12
y(i,j)
g(i,j)
VT
x(i,j)
21
21C
WEIGHTING COEFFICIENT PRODUCTION
w
1-w
21D
21E
21F
g0(i,j)
g1(i,j)
21A
COEFFICIENT CALCULATION SECTION
21B
COEFFICIENT CALCULATION SECTION
r0(i,j)
r1(i,j)
19
19A
LPF
19B
LPF

FIG.29

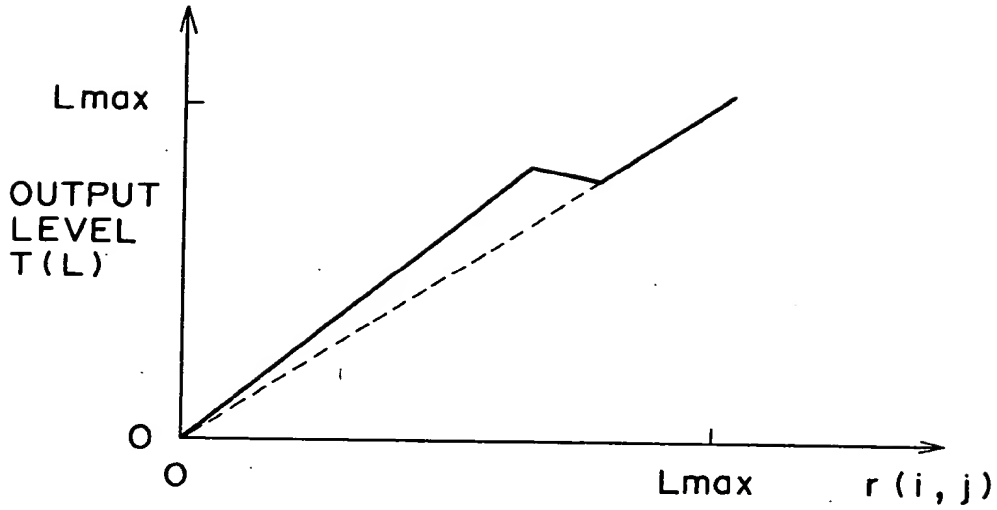

Lmax
OUTPUT
LEVEL
T(L)
O
O
Lmax
r(i, j)

FIG.30

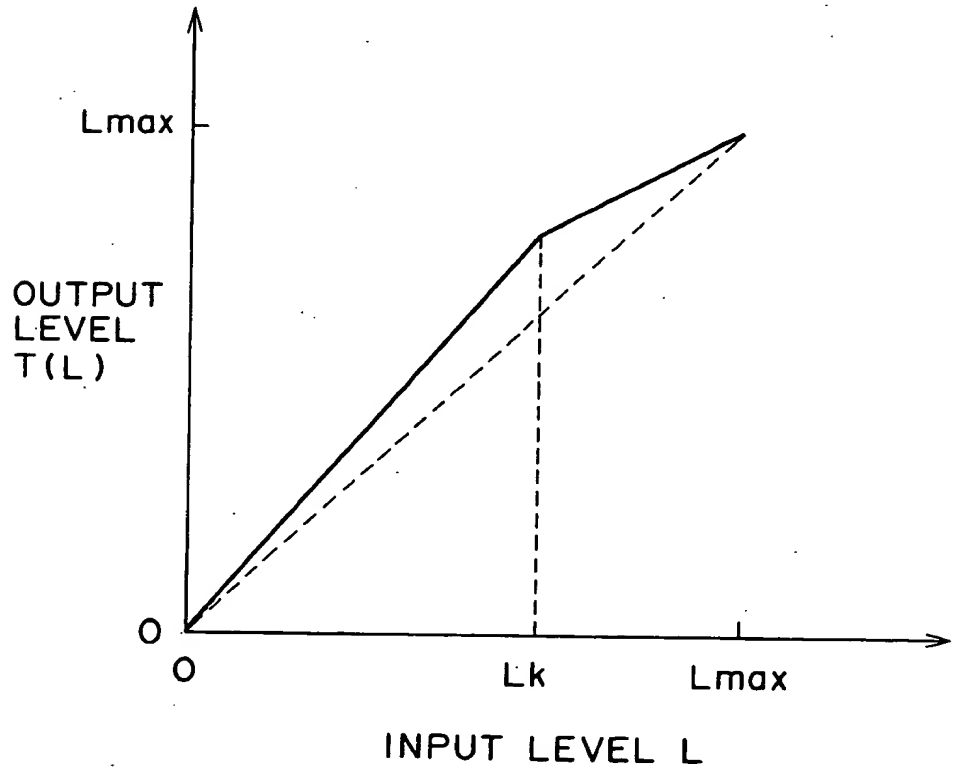

Lmax
OUTPUT
LEVEL
T(L)
O
O
Lk
Lmax
INPUT LEVEL L

FIG. 31

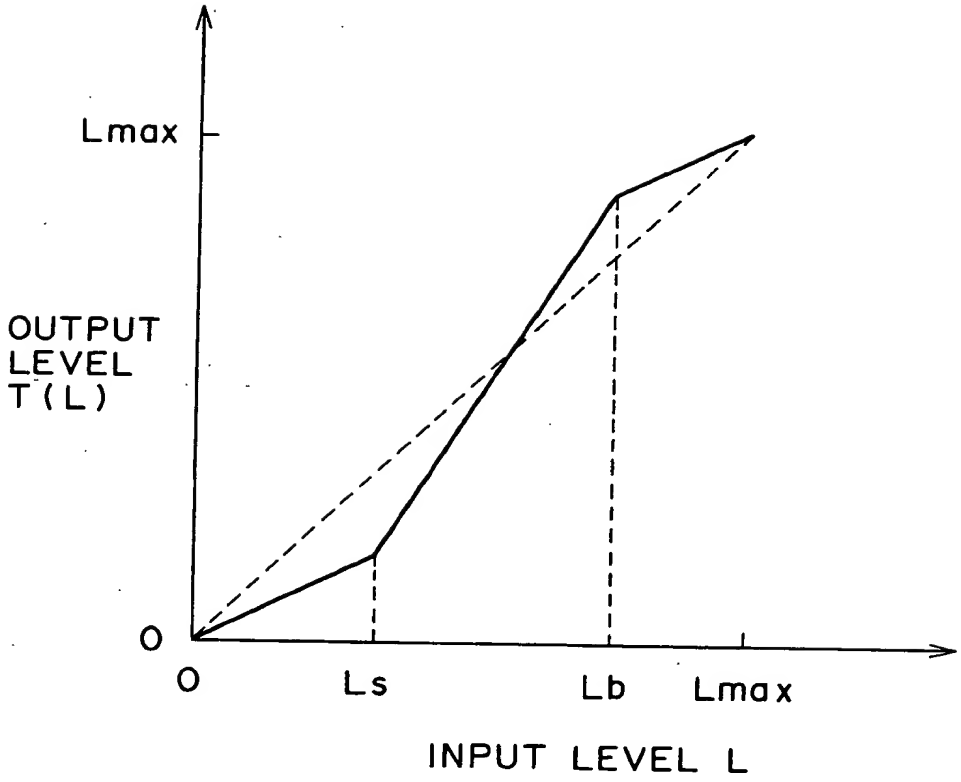
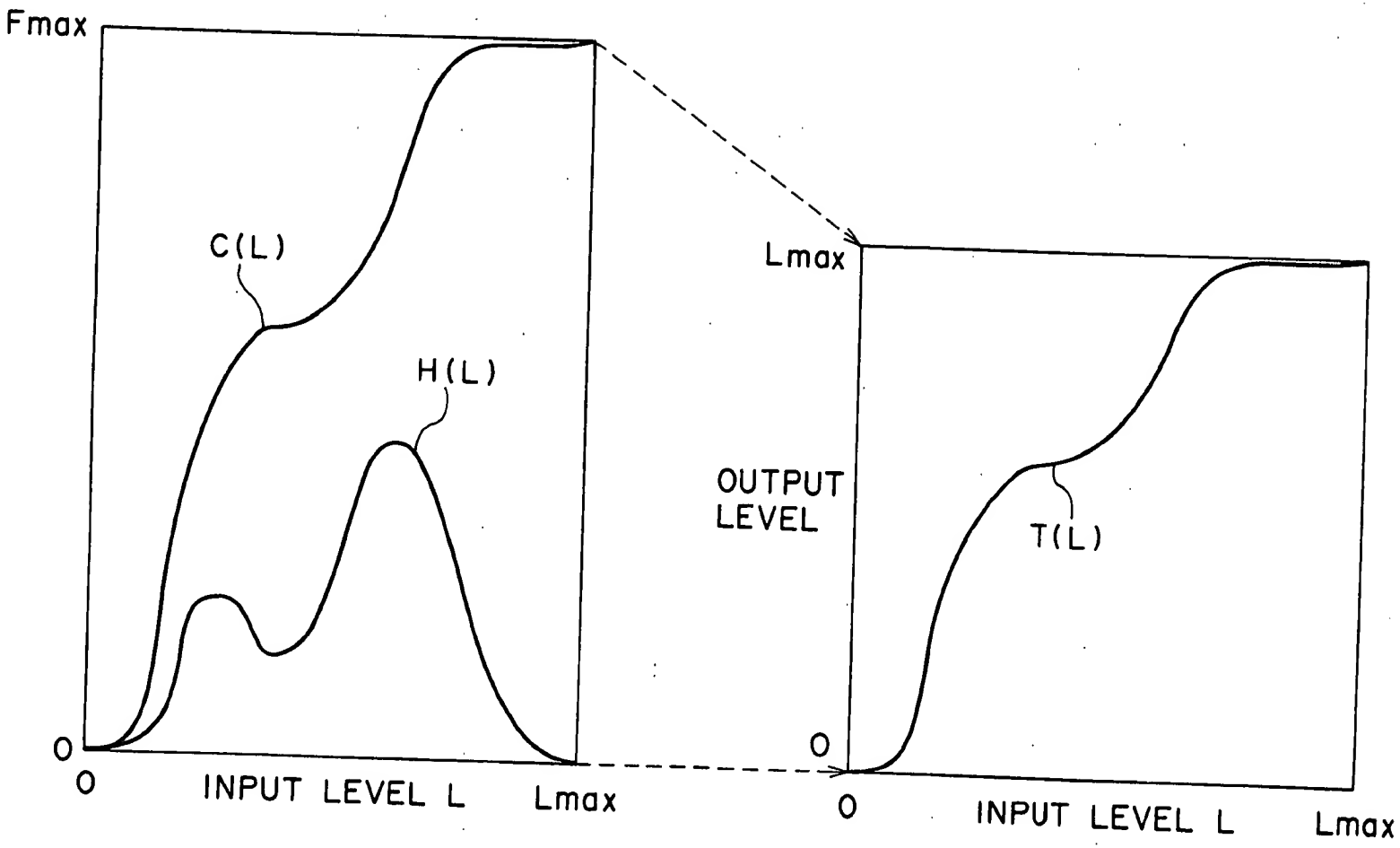


FIG. 32


Fmax
C(L)
H(L)
0
0
INPUT LEVEL L
Lmax
Lmax
OUTPUT LEVEL
T(L)
0
0
INPUT LEVEL L
Lmax